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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/605,227	09/16/2003	Kangguo Cheng	FIS920030221US1	2226	
32074 7	7590 04/02/2004		EXAM	EXAMINER	
INTERNATIONAL BUSINESS MACHINES CORPORATION			PERKINS, PAMELA E		
DEPT. 18G			ART UNIT	PAPER NUMBER	
BLDG. 300-48	32		ARTONI	TATER NUMBER	
2070 ROUTE :	52		2822		
HOPEWELL I	UNCTION NY 12533				

DATE MAILED: 04/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	11,1			
Office Antique Company	10/605,227	CHENG ET AL.	V			
Office Action Summary	Examiner	Art Unit				
	Pamela E Perkins	2822				
The MAILING DATE of this communication at Period for Reply  A SHORTENED STATUTORY PERIOD FOR REFTHE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reft NO period for reply is specified above, the maximum statutory perions are reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).  Status	PLY IS SET TO EXPIRE 30- N. 1.136(a). In no event, however, may a re- reply within the statutory minimum of thirt od will apply and will expire SIX (6) MON tute, cause the application to become AB	eply be timely filed  y (30) days will be considered timely. THS from the mailing date of this communication.	.—			
	S Santambar 2002					
3) Since this application is in condition for allow closed in accordance with the practice under	wance except for formal matt		erits is			
Disposition of Claims						
4)⊠ Claim(s) 1-20 is/are pending in the applicati 4a) Of the above claim(s) is/are without 5)□ Claim(s) is/are allowed. 6)□ Claim(s) is/are rejected. 7)□ Claim(s) is/are objected to. 8)⊠ Claim(s) 1-20 are subject to restriction and/or	Irawn from consideration.					
Application Papers						
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to t Replacement drawing sheet(s) including the corr 11) The oath or declaration is objected to by the	accepted or b) objected to he drawing(s) be held in abeyar rection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Bur * See the attached detailed Office action for a line	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National Sta	ge			
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413) s)/Mail Date				
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date</li> </ul>		nformal Patent Application (PTO-15	2)			

## **DETAILED ACTION**

This office action is in response to the filing of the application papers on 16 September 2003. Claims 1-20 are pending.

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-12, drawn to a method of manufacturing a semiconductor device, classified in class 438, subclass 270.
- Claims 13-20, drawn to a semiconductor device, classified in class 257, subclass 330.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process. For example, the trench can be formed by scribing rather than etching, as required by the process as claimed.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement may be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pamela E Perkins whose telephone number is (571) 272-1840. The examiner can normally be reached on Monday thru Friday, 9:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on (571) 272-1852. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Art Unit: 2822

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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